Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Robert L. Williams

GENERAL INFORMATION:

Name:	Gallatin Materials, LLC
Address:	525 Hance Road, Verona, Kentucky 41092
Date application received:	May 4, 2005
SIC/Source description:	3274 / Lime Production
EIS #:	21-077-00031
AI number:	71400
Permit number:	V-06-xxx

APPLICATION TYPE/PERMIT ACTIVITY:

[x] Initial issuance
[ ] Permit modification
__Administrative
__Minor
__Significant
[ ] Permit renewal
[ ] General permit
[ ]Conditional major
[x] Title V
[ ] Synthetic minor
[ ] Operating
[x] Construction/operating

COMPLIANCE SUMMARY:

[ ] Source is out of compliance
[x] Compliance certification signed
[ ] Compliance schedule included

APPLICABLE REQUIREMENTS LIST:

[ ] NSR
[x] PSD
[ ] Netted out of PSD/NSR
[x] NSPS
[x] NESHAPS
[ ] Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)
[x] SIP
[ ] Other

MISCELLANEOUS:

[ ] Acid rain source
[ ] Source subject to 112(r)
[ ] Source applied for federally enforceable emissions cap
[ ] Source provided terms for alternative operating scenarios
[x] Source subject to a MACT standard
[ ] Source requested case-by-case 112(g) or (j) determination
[ ] Application proposes new control technology
[x] Certified by responsible official
[x] Diagrams or drawings included
[ ] Confidential business information (CBI) submitted in application
[ ] Pollution Prevention Measures
[ ] Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM_{10}	288.869 / 256.196	288.869 / 256.196
SO_2	108.657	108.657
NOx	970.827	970.827
CO	464.289	464.289
VOC	1.623	1.623
LEAD	0.022	0.022
HAP ∃ 10 tpy (by CAS)		
HCl	62.862	62.862

SOURCE PROCESS DESCRIPTION:

Gallatin Materials, LLC will be operating in conjunction with Sterling Ventures LLC, who will supply the limestone for Gallatin Materials, LLC. Any limestone, after screening by Gallatin Materials, that is considered too large or too small for Gallatin's use will be returned to Sterling Ventures.

There will be two new preheater rotary kilns at the plant. Both kilns utilize the same basic feed and counter fuel feed process. For both kilns, stone is fed directly into the kiln at a controlled rate while fuel is fed into the opposite end. As calcination takes place, the limestone is converted to quick lime. The lime is cooled and screened and either transported directly to a storage bin or screened and deposited into several bins to await shipping. Particulate emissions from the kilns are controlled by baghouses.

Lime is transported to the hydrate plant via pneumatic conveyor. The lime bin at the hydrate plant feeds into the hydrator. The hydrated material is stored in a silo. From the silo, it is loaded into trucks.

A lime additive is also stored in two silos that may later be added to the lime utilizing the same conveyor system prior to loading into trucks.

Coal is delivered to the plant by truck and barge and stored in separate silos. Material is fed by vibrating conveyors under the silos through a conveying system, to a storage bin for each kiln. From these bins, the material is conveyed to a pulverizer to process the fuel for burning.